

**PRE-TREATMENT OF HYDROCARBON FEED PRIOR TO OXIDATIVE
DESULFURIZATION**

ABSTRACT OF THE DISCLOSURE

[57] Embodiments of the invention provide a process for selectively removing
5 polyene compounds from a hydrocarbon stream. The process comprises the steps of
contacting the polyene compounds with sulfuric acid at ambient temperature and sufficient
time to form two phases. The phases consist of a hydrocarbon phase with substantially no
loss in octane number and a spent acid phase. The hydrocarbon phase can then be sent to an
optimized desulfurization process.